

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (canceled)

Claim 2 (canceled)

Claim 3 (canceled)

Claim 4 (canceled)

Claim 5 (canceled)

Claim 6 (canceled)

Claim 7 (canceled)

Claim 8 (canceled)

Claim 9 (canceled)

Claim 10 (canceled)

11. (currently amended) A method for reducing nitrogen oxides in gas mixtures from pyrotechnic reactions, comprising carrying out a pyrotechnic reaction of a gas generating substance to generate a gas mixture;

vaporizing at least one additive selected from the group consisting of metallocenes, metallocene derivatives, sulfur, and sulfur compounds by the heat released in the pyrotechnic reaction; and

converting nitrogen oxides in the gas mixture to non-toxic compounds in a homogenous gas phase reaction ~~in the presence of~~ by reaction with the

vaporized additive.

12. (currently amended) The method according to Claim ~~411~~, wherein the at least one additive is selected from the group consisting of diacetylferrocene, titanocene pentasulfide, and sulfur.

13. (currently amended) The method according to Claim ~~411~~, wherein the at least one additive comprises ferrocene.

14. (currently amended) The method according to Claim ~~411~~, wherein at least one component of the gas-generating substance is coated with the at least one additive.

15. (currently amended) The method according to Claim ~~411~~, wherein the additive substance is placed in a flow path of the gas mixture.

16. (New) A method for reducing nitrogen oxides in gas mixtures from pyrotechnic reactions, comprising carrying out a pyrotechnic reaction of a gas generating substance to generate a gas mixture;

vaporizing a nitrogen oxides reducing substance by the heat released in the pyrotechnic reaction; and

converting nitrogen oxides in the gas mixture to non-toxic compounds in a homogenous gas phase reaction by reaction with the vaporized nitrogen oxides reducing substance;

wherein the nitrogen oxides reducing substance consists essentially of at least one compound selected from the group consisting of metallocenes, metallocene derivatives, sulfur, and sulfur compounds.

17. (New) The method according to Claim 16, wherein the nitrogen oxides reducing substance is selected from the group consisting of diacetylferrocene, titanocene pentasulfide, and sulfur.

18. (New) The method according to Claim 16, wherein the nitrogen oxides reducing substance comprises ferrocene.

19. (New) The method according to Claim 16, wherein at least one component of the gas-generating substance is coated with the nitrogen oxides reducing substance.

20. (New) The method according to Claim 16, wherein the nitrogen oxides reducing substance is placed in a flow path of the gas mixture.

21. (New) A method for reducing nitrogen oxides in gas mixtures from pyrotechnic reactions, comprising carrying out a pyrotechnic reaction of a gas generating substance to generate a gas mixture;

vaporizing a nitrogen oxides reducing substance by the heat released in the pyrotechnic reaction; and

converting nitrogen oxides in the gas mixture to non-toxic compounds

in a homogenous gas phase reaction by reaction with the vaporized nitrogen oxides reducing substance;

wherein the nitrogen oxides reducing substance consists of at least one compound selected from the group consisting of metallocenes, metallocene derivatives, sulfur, and sulfur compounds.

22. (New) The method according to Claim 21, wherein the nitrogen oxides reducing substance is selected from the group consisting of diacetylferrocene, titanocene pentasulfide, and sulfur.

23. (New) The method according to Claim 21, wherein the nitrogen oxides reducing substance comprises ferrocene.

24. (New) The method according to Claim 21, wherein at least one component of the gas-generating substance is coated with the nitrogen oxides reducing substance.

25. (New) The method according to Claim 21, wherein the nitrogen oxides reducing substance is placed in a flow path of the gas mixture.